

1	ACA	GTC	AGC	CGC	ATG	GCT	M	A	P	L	C	P	S	P	W	L	P	L	12
13	L	I	P	A	P	A	P	G	L	T	V	Q	L	L	L	S	S	28	
49	TTC	ATC	CCG	GCC	CCT	GCT	CCA	GGC	C ^T C	ACT	GTG	CAA	CTG	CTG	CTG	TCA	TCA	96	
29	L	L	L	L	M	P	V	H	P	Q	R	L	P	R	M	Q	44		
97	CTG	CTG	CTT	CTG	ATG	CCT	GTC	CAT	CCC	CAG	AGG	T ^T G	CCC	CGG	ATG	CAG	144		
45	E	D	S	P	L	G	G	G	S	S	G	E	D	D	P	L	60		
145	GAG	GAT	TCC	CCC	T ^T G	GGA	GGA	G ^G C	TCT	TCT	GGG	GAA	GAT	GAC	CCA	CTG	192		
61	G	E	E	D	L	P	S	E	E	D	S	P	R	E	E	D	76		
193	GGC	GAG	GAG	GAT	CTG	CCC	AGT	GAA	GAG	GAT	TCA	CCC	AGA	GAG	GAG	GAT	240		
77	P	P	G	E	E	D	L	P	G	E	E	D	L	P	G	E	92		
241	CCA	CCC	GGA	GAG	GAG	GAT	CTA	CCT	GGA	GAG	GAG	GAT	CTA	CCT	GGA	GAG	288		
93	E	D	L	P	E	V	K	P	K	S	E	E	E	G	S	L	108		
289	GAG	GAT	CTA	CCT	GAA	GTT	AAG	CCT	AAA	TCA	GAA	GAG	GGC	TCC	C ^T G	336			
109	K	L	E	D	L	P	T	V	E	A	P	G	D	P	Q	E	124		
337	AAG	TTA	GAG	GAT	CTA	CCT	ACT	GTT	GAG	GCT	CCT	GGA	GAT	CCT	CAA	GAA	384		
125	P	Q	N	N	A	H	R	D	K	E	G	D	D	Q	S	H	140		
385	CCC	CAG	AAT	AAT	GCC	CAC	AGG	GAC	AAA	GAA	GGG	GAT	GAC	CAG	AGT	CAT	432		
141	W	R	Y	G	G	D	P	P	W	P	R	V	S	P	A	C	156		
433	TGG	CGC	TAT	GGA	GGC	GAC	CCG	CCC	TGG	CCC	CGG	GTG	TCC	CCA	GCC	TGC	480		
157	A	G	R	F	Q	S	P	V	D	I	R	P	Q	L	A	A	172		
481	GGC	GGC	CGC	TTC	CAG	TCC	CCG	GTG	GAT	ATC	CGC	CCC	CAG	CTC	GCC	GCC	528		

FIG.-1A

173	F	C	P	A	L	R	P	L	E	L	G	F	Q	L	P	188		
529	TTC	TGC	CCG	GCC	CTG	CGC	CCC	CTG	GAA	CTC	CTG	GGC	TTC	CAG	CTC	CCG	576	
189	P	L	P	E	L	R	L	R	N	N	G	H	S	V	Q	L	204	
577	CCG	CTC	CCA	GAA	CTG	CGC	CTG	CGC	AAC	AAT	GGC	CAC	AGT	GTG	CAA	CTG	624	
205	T	L	P	P	G	L	E	M	A	L	G	P	G	R	E	Y	220	
625	ACC	CTG	CCT	CCT	GGG	CTA	GAG	ATG	GCT	CTG	GGT	CCC	GGG	CGG	GAG	TAC	672	
221	R	A	L	Q	L	H	L	H	W	G	A	A	G	R	P	G	236	
673	CGG	GCT	CTG	CAG	CTG	CAT	CTG	CAC	TGG	GGG	GCT	GCA	GGT	CGT	CCG	GGC	720	
237	S	E	H	T	V	E	G	H	R	F	P	A	E	I	H	V	252	
721	TCG	GAG	CAC	ACT	GTG	GAA	GGC	CAC	CGT	TTC	CCT	GGC	GAG	ATC	CAC	GTG	768	
253	V	H	L	S	T	A	F	A	R	V	D	E	A	L	G	R	268	
769	GTT	CAC	CTC	AGC	ACC	GCC	TTT	GCC	AGA	GTA	GAC	GAG	GCC	TTG	GGG	CGC	816	
269	P	G	G	L	A	V	L	A	A	F	I	E	E	G	P	E	284	
817	CCG	GGA	GGC	CTG	GCC	GTG	TTG	GCC	GCC	TTT	CTG	GAG	GGC	CCG	GAA	864		
285	E	N	S	A	Y	E	Q	L	L	S	R	I	E	E	I	A	300	
865	GAA	AAC	AGT	GCC	TAT	GAG	CAG	TTG	CTG	TCT	CGC	TTG	GAA	GAA	ATC	GCT	912	
301	E	E	G	S	E	T	Q	V	P	G	L	D	I	S	A	L	316	
913	GAG	GAA	GGC	TCA	GAG	ACT	CAG	GTC	CCA	GGA	CTG	GAC	ATA	TCT	GCA	CTC	960	
317	L	P	S	D	F	S	R	Y	F	Q	Y	E	G	S	L	T	332	
961	CTG	CCC	TCT	GAC	TTC	AGC	CGC	TAC	TTC	CAA	TAT	GAG	GGG	TCT	CTG	ACT	1008	
333	T	P	P	C	A	Q	G	V	I	W	T	V	F	N	Q	T	348	
1009	ACA	CCG	CCC	TGT	GCC	CAG	GGT	GTC	GTC	ATC	TGG	ACT	GTG	TTT	AAC	CAG	ACA	1056

FIG.-1B

349	V	M	L	S	A	K	Q	L	H	T	L	S	D	T	L	W	364
1057	GTG	ATG	CTG	AGT	GCT	AAG	CAG	CTC	CAC	ACC	CTC	TCT	GAC	ACC	CTG	TGG	1104
365	G	P	G	D	S	R	L	Q	L	N	F	R	A	T	Q	P	380
1105	GGA	CCT	GGT	GAC	TCT	CGG	CTA	CAG	CTG	AAC	TTC	CGA	GCG	ACG	CAG	CCT	1152
381	L	N	G	R	V	I	E	A	S	F	P	A	G	V	D	S	396
1153	TTG	AAT	GGG	CGA	GTG	ATT	GAG	GCC	TCC	TTC	CCT	GCT	GGG	GTG	GAC	AGC	1200
397	S	P	R	A	A	E	P	V	Q	L	N	S	C	L	A	A	412
1201	AGT	CCT	CGG	GCT	GCT	GAG	CCA	GTC	CAG	CTG	AAT	TCC	TGC	CTG	GCT	GCT	1248
413	G	D	I	L	A	L	V	F	G	L	L	F	A	V	T	S	428
1249	GGT	GAC	ATC	CTA	GCC	CTG	GTT	TTT	GGC	CTC	CTT	TTT	GCT	GTC	ACC	AGC	1296
429	V	A	F	L	V	Q	M	R	R	Q	H	R	R	G	T	K	444
1297	GTC	GCG	TTC	CTT	GTG	CAG	ATG	AGA	AGG	CAG	CAC	AGA	AGG	GGA	ACC	AAA	1344
445	G	G	V	S	Y	R	P	A	E	V	A	E	T	G	A	*	460
1345	GGG	GGT	GTG	AGC	TAC	CGC	CCA	GCA	GAG	GTA	GCC	GAG	ACT	GGA	GCC	TAG	1392
1393	AGG	CTG	GAT	CTT	GGA	GAA	TGT	GAG	AAG	CCA	GCC	AGA	GGC	ATC	TGA	GGG	1440
1441	GGA	GCC	GGT	AAC	TGT	CCT	GTC	CTG	CTC	ATT	ATG	CCA	CTT	CCT	TTT	AAC	1488
1489	TGC	CAA	GAA	ATT	TTT	TAA	AAT	AAA	TAT	TTA	TAA	T				1522	

FIG._1C**FIG._1A****FIG._1B****FIG._1C****FIG._1**

FIG. - 2A

1981	ttgcaatttc	cttcatttaatca	tgatctttaa	agatcaataa	tataatcctt	aagtatgatc	ttgctctgag	aggtagggca
2041	ttctttaatca	taattttgtct	ttAACAGAA	ttAACAGAA	ttAACAGAA	tcaaggattt	tcaaggattt	tgtctttatt
2101	ataataaaga	ttatTTGTT	tttGCTGGC	tttGCTGGC	tttGCTGGC	ggattatata	ggattatata	ggattatata
2161	tttgctggc	gcagtggct	acacctgtta	ttccaggact	ttccaggact	aaggtaggaag	aaggtaggaag	aaggtaggaag
2221	gatcaattt	gcctacttt	atattatctt	ctaaaggcaga	attcatctct	cttccctcaa	cttccctcaa	cttccctcaa
2281	tatgtatgata	ttgacagggt	ttGCCCTCAC	tcacttagatt	gtgagctccct	gctcaggggca	tgctctgtca	tgctctgtca
2341	ggtagcgtt	tttggtttgg	tttttttttt	tcttttttga	gacagggtct	tgctctgtca	tgctctgtca	tgctctgtca
2401	cccaggccag	agtgcataatgg	tgacgtctca	gctcactgca	gcctcaaccg	cctcggtca	cctcggtca	cctcggtca
2461	aaccatcatc	ccatTTcAGC	ttcctgagta	gctgggacta	caggcacatg	ccattacacc	ccattacacc	ccattacacc
2521	tggctaattt	ttttgttattt	ctagtagaga	cagggtttgg	ccatgttgcc	cgggtggtc	cgggtggtc	cgggtggtc
2581	tcgaactccct	ggactcaagg	aatccaccca	cctcaggccct	ccaaatgag	ggaccgggtc	ggaccgggtc	ggaccgggtc
2641	ttatttcattt	ccatgtccct	agtccatagg	ccagtgtctgg	acctatggta	gtactaaataa	gtactaaataa	gtactaaataa
2701	aatattttgtt	gaatgcaata	gtaaatagca	tttcaggagg	caagaacttag	attaaacaaag	attaaacaaag	attaaacaaag
2761	gtggtaaaag	gtttggagaa	aaaaataataa	gtttaaatttg	gcttaggtat	gagggagagt	gagggagagt	gagggagagt
2821	agttaggagac	aagatggaaa	ggtctcttgg	gcaagggttt	gaaggaaagt	ggaagtctaga	ggaagtctaga	ggaagtctaga
2881	agtacacaat	gtgcataatcg	ttggcaggcag	tggggagcca	atgaaggctt	ttgaggcaggaa	ttgaggcaggaa	ttgaggcaggaa
2941	gagtaatgtg	ttgaaaaataa	aatataagggt	aaacctatca	gagccctctt	gacacataca	gacacataca	gacacataca
3001	cttgcttttc	attcaagctc	aagtttgtct	cccacatacc	cattacttaa	ctcacccctcg	ctcacccctcg	ctcacccctcg
3061	ggctccctta	gcagccctggc	ctaccccttt	acctgttcc	tggtggagtc	aggatgttat	aggatgttat	aggatgttat
3121	acatggagctg	cttccctct	cagccaggagg	acatgggggg	cccaggctcc	cctgcctttc	cctgcctttc	cctgcctttc
3181	cccttctgtg	cctggagctg	ggaaggaggc	cagggttagc	ttaggtggc	tggcaaggcag	tggcaaggcag	tggcaaggcag
3241	ctgggtgtgt	ccaggaggag	cctgcatagt	gccagggtgt	gccttgggtt	ccaaggctagt	ccaaggctagt	ccaaggctagt
3301	ccatggcccc	gataaaccttc	tgccctgtgca	cacacctggc	cctcaactcca	ccccatcct	ccccatcct	ccccatcct
3361	agctttggta	ttggggagag	ggcacagggc	cagacaaaacc	tgtgagactt	tggtccatc	tggtccatc	tggtccatc
3421	tctgcaaaag	ggcgctctgt	gagttagccct	gttcccctcc	aggcttgctc	ctccccccac	ctccccccac	ctccccccac
3481	cagctctcggt	ttccaaatgca	cgtacagccc	gtacacaccg	tgtgctgggg	cacccacacag	cacccacacag	cacccacacag
3541	TCAGCCCCAT	GGCTCCCTGT	TGCCCCAGCC	CCTGGCTCCC	TCTGTTGATC	CGGGCCCTG	CGGGCCCTG	CGGGCCCTG
3601	CTCCAGGCCT	CACTGTGCAA	CTGCTGCTGT	CACTGTGCT	TCTGGTGCCT	GTCCATCCCC	GTCCATCCCC	GTCCATCCCC
3661	AGAGGTGCC	CGGGATGCCAG	GAGGATTC	CCTTGGGAGG	AGGCTCTTCT	GGGAAGATG	GGGAAGATG	GGGAAGATG
3721	ACCCACTGGG	CGAGGAGGAT	CTGGCCAGTG	AAGAGGATT	ACCCAGAGAG	GAGGATCCAC	GAGGATCCAC	GAGGATCCAC
3781	CGGGAGAGGA	GGATCTACCT	GGAGGAGGG	ATCTACCTGG	AGAGGAGGAT	CTACCTGAAG	CTACCTGAAG	CTACCTGAAG
3841	TTAACGCCCTAA	ATCAGAAAGAA	GAGGGCTCCC	TGAAGTTAGA	GGATCTACCT	ACTGTTGAGG	ACTGTTGAGG	ACTGTTGAGG
3901	CTCCTGGAGA	TCCTCAAGAA	CCCCAGAATA	ATGCCACAG	GGACAAAGAA	Gtaagtgggt	GGACAAAGAA	GGACAAAGAA

FIG._2B

3961	catcaatctc	caaatccagg	ttccaggagg	ttcatgactc	ccctccata	ccccagccata
4021	ggctctgttc	actcagggaa	ggagggaga	ctgtactccc	cacagaagcc	cttccaggagg
4081	tcccatacca	atatccccat	cccacacttc	ggaggttagaa	agggacagat	gtggagagaa
4141	aataaaaagg	gtgcaaaaagg	agaggatgaa	gctggatgag	atggagaga	agggaggaggc
4201	tggagaaggag	aaaggatgaa	gaactggaga	ttagaaaaaa	aatgtgcaga	cagaggaaaa
4261	aaataaggttg	agaaggaggg	tcagagagg	tgagggaaag	agaaaaggaa	agcttggag
4321	gtgaagtggg	taccaaggac	aagcaagaagg	agctggtaga	agtcatctca	tctttaggcta
4381	caatgaggaa	ttgagaccta	ggaaggagg	acacaggagg	tagaaaacg	tggcttcgt
4441	actccaaagc	caggaatttg	gggaaaagg	ttggagacca	tacaaggcag	agggatgagt
4501	ggggagaaga	aagaaggagg	aaaggaaaaga	tggtgtactc	actcatttgg	gactcaggac
4561	tgaagtggcc	actcacttt	ttttttttt	tttttagac	aaactttcac	tttgttgcc
4621	caggctggag	tgcaatggcg	cgatctccggc	tcactcaac	ctccacccccc	cgggttcaag
4681	tgatttcct	gcctcaggct	ctagccaatg	agctgcgatt	acaggcatgc	gccaccacgc
4741	ccggcttaatt	tttgtattt	tagtagagac	gggttttcgc	catgttggtc	aggctggct
4801	cgaactccctg	atctcagggt	atccaaaccac	cctggctcc	caaagtgtcg	ggattatagg
4861	cgtgagccac	agcggctggc	ctgaaggagc	cactcaattt	tacagaccct	aagacaatga
4921	ttgcaaggctg	gttaggattgc	tgtttggccc	accaggctgc	gttggttgagt	ttgggttgcgg
4981	tctccctgtc	tttgaccctg	gcccgcctta	ggcattttgtt	accgttaatg	tcctgttaag
5041	gcatctcggt	tttgacatc	gttttgggtcg	ccagggagg	atggggctc	taagctttag
5101	cggttcatcc	tttcatat	tacagggat	GACCAGAGTC	ATGGGGCTA	TGGAGgtgag
5161	acacccaccc	gtgtcacaga	cccaatctgg	gaaccaggct	ctgtggatct	cccctacaggc
5221	cgtccctgaa	cactggttcc	gggggtccca	cccggcggcc	accgtcccac	cccttcacct
5281	tttctacccg	ggttccctaa	gttcttgacc	taggggtcag	acttcctcac	tatactctcc
5341	cacccaggc	GACCCGCCCT	GGCCCCGGGT	GTCCCCAGCC	GCTGGGGCC	GCTTCAGTC
5401	ccccgtggat	ATCCGGCCCC	AGCTCGCCGC	CTTCTGGCCCG	CCCTGGAACT	CCCTGGAACT
5461	CCTGGGCTTC	CAGCTCCCGC	CGCTCCAGA	ACTGGGCCCTG	CGCAACAATG	GCCACAGTGG
5521	tgagggggtc	tccccggccga	gactttggga	tgggtggccc	cgcagggaag	ggaaaccgtcg
5581	cgcagtgcct	ggccgggggt	tgggtggccc	ctaccgggg	gggggggttc	acttgcctct
5641	ccctacggcag	TGCAACTGAC	CCTGGCTCCT	GGCTAGAGA	TGGCTCTGGG	TCCGGGGGG
5701	GAGTACGGG	CTCTGCAGCT	GCATCTGCAC	TGGGGGCTG	CAGGTCTGCC	GGGCTCGGAG
5761	CACACTGTG	AAGGCCACCG	TTTCCCTGCC	GAGgttagcg	cggactggcc	gagaaggggc
5821	aaaggaggcg	ggcggacgg	ggcccaggagac	gtggccctct	cctaccctcg	tgtccctttc
5881	agatccacgt	GGTTCAACCTC	AGCACCGCCT	TTGCCAGAGT	TGACGAGGCC	TGGGGGGGCC

FIG._2C

5941	CGGGAGGCT	GGCCGGTGTG	GCCGGCTTTC	TGGAGGttacc	agatccttgg	caccccccctac
6001	tccccgttt	ccatcccat	gctcctccg	gactctatcg	tggagccaga	gaccccatcc
6061	cagcaagtc	actcaggcc	ctggctgaca	aactcatca	cgcactgttt	gttcatttaa
6121	cacccactgt	gaaccggca	ccagggcca	acaaggattc	tgaaggctgta	ggtccttggcc
6181	tctaaggaggc	ccacggccag	tggggaggc	tgacatgaca	gacacatagg	aaggacatag
6241	taaagatggt	ggtcacagag	gagggtgacac	ttaaaggcct	cactggtaga	aaagaaaagg
6301	agggttcat	tgcaggaggaa	acagaatgtg	caaagactca	gaataatggcc	tatttaggga
6361	atggctacat	acaccatgt	tagaggaggc	ccagtaaaagg	gaaggatgg	ttagatggct
6421	gcttaggttca	ctcactcact	tttattttt	tattttttt	tttgacagtc	tctctgtcgc
6481	ccaggcttga	gtgcagggtt	gtgatctgg	gtcactgca	cttccggctc	ccgggttcaa
6541	gggatttcc	tgcctcagct	tcctgaggtag	ctgggttac	agggtgtgc	caccatgccc
6601	agctaatttt	tttttgtatt	tttagtagac	agggtttac	catgtggtc	aggctggct
6661	caaactctg	gcctcaagg	atccgcctg	ctcagcctac	caaagtctg	attacaagtg
6721	tgagccaccg	tgcccaggca	cactcactga	ttctttaatg	ccagccacac	agcacaaagt
6781	tcagagaaat	gcctccatca	tagcatgtca	atatgttcat	actcttaggt	tcatgtatgt
6841	cttaacattta	ggttcataag	caaaaataaga	aaaaaaaata	ataaaaaaaa	gaagtggcat
6901	gtcaggacct	cactgtaaaa	gccaacacaca	gaatcatgaa	ggtgaatgca	gaggtgacac
6961	caacacaaag	gtgttatatat	ggtttcctgt	ggggaggtatg	tacggaggca	gcagtggatgt
7021	agactgaaaa	cgtcagaagg	gcacgggtca	ctgagggcct	agtatcctag	taaagtggc
7081	tctctccctc	tctctcagg	ttgtcattga	aaaccagtcc	accaaggcttg	ttggttcgca
7141	cagcaagagt	acatagagg	tgaaaaata	cataggatt	taagaggag	acactgtctc
7201	taaaaaaaaaa	aacaacagca	acaacaaaaaa	gcaacaaacca	ttacaatttt	atgtttccctc
7261	aggattctca	gagctgagga	atggggagg	actatggaa	ccccttcat	gttccggccct
7321	tcagccatgg	ccctggatac	atgcactcat	ctgtcttaca	atgtcattcc	cccaggAGGG
7381	CCCGGAAGAA	AACAGTGGCT	ATGAGCACTT	GCTGTCCTCGC	TTGAAAGAAA	TGCTGAGGA
7441	AGgtcagttt	gttgggtctgg	ccactaatct	ctgtggccta	gttcataaaag	aatcacccctt
7501	tggagcttca	ggtctgagggc	tggagatggg	ctccctccag	tgcaggagg	attgaagcat
7561	gagccagcgc	tcatctgtat	aataacatg	aagctgacag	acacagttac	ccgcaaacgg
7621	ctgcctacag	attgaaaaacc	aagaaaaaac	cgccgggcac	ggtggctcac	gcctgttaatc
7681	ccagcacttt	ggggggccaa	ggcagggtgg	tcacgggtc	aagagatcaa	gaccatcctg
7741	gccaacatgg	tgaacccca	tctctactaa	aaataacgaaa	aaatagccag	gcgtggtggc
7801	gggtgcctgt	atcccaagct	actcgggggg	ctgaggcagg	agaatggcat	gaaccggggaa
7861	ggcagaagtt	gcagtgagcc	cactgcactc	cagcctggggc	aacagaggcga	

FIG._2D

Fig. 2E. *cccaacag*

9901	gctaattgtat	tagaattgaag	cttgagaaat	ctcccaggcat	ccctctcgca	aaagaatccc
9961	ccccctttt	tttaaaggata	gggtctcact	ctgtttggcc	caggctgggg	tgttgtggca
10021	cgatcataggc	tcactgcaggc	ctcgaactcc	taggctcagg	caatccttcc	accttagctt
10081	ctcaaaaggcac	tggactgtta	ggcatgagcc	actgtccctg	gccccaaacg	gcccctttac
10141	ttggctttta	gaaaggaaaa	acggtgctta	tcttacccct	tctcggtat	ccaccctcat
10201	cccttggctg	gcctctctg	gagactgagg	cactatgggg	ctgcctgaga	actcggggca
10261	gggtgggtgg	agtgcactga	ggcagggtgtt	gaggaactct	gcagaccctt	cttccttccc
10321	aaaggaggccc	tctctgtct	ccatcgagg	tgacatccctt	gcccttggtt	ttggcctcct
10381	TTTTGCTGTC	ACCAGCGTCG	CGTTCCCTGT	GCAGATGAGA	AGGCAGCACA	Ggtattacac
10441	tgaccctttc	ttcaggcaca	agcttcccc	acccttgggg	agtcaattca	tgcaaaggcgc
10501	atgcaaaatga	gctgctcctg	ggccaggttt	ttccctgttg	tgtacacaca	
10561	gAAGGGAAC	CAAAGGGGGT	GTGAGCTACC	GGTAGCCGAG	ACTGGAGCCT	
10621	AGAGGCCTGGA	TCTTGGAGAA	TGTGAGAAGC	GCCAGCAGGA	GGAGGCCGGTA	
10681	ACTGTCCCTGT	CCTGCTCATT	ATGCCACTTC	CATCTGAGGG		
10741	AATATTATA	ATaaaatatg	tgttagtcac	ctttgttccc	caaatcagaa	ggaggtattt
10801	gaatttccctt	ttactgtttat	tagcacaat	tttaggtttaa	tgcattttt	ctattacagt
10861	tcggccctcc	tcccacatc	actccacatc	gttgctcc		

FIG._2F**FIG._2A****FIG._2B****FIG._2C****FIG._2D****FIG._2E****FIG._2F****FIG._2**

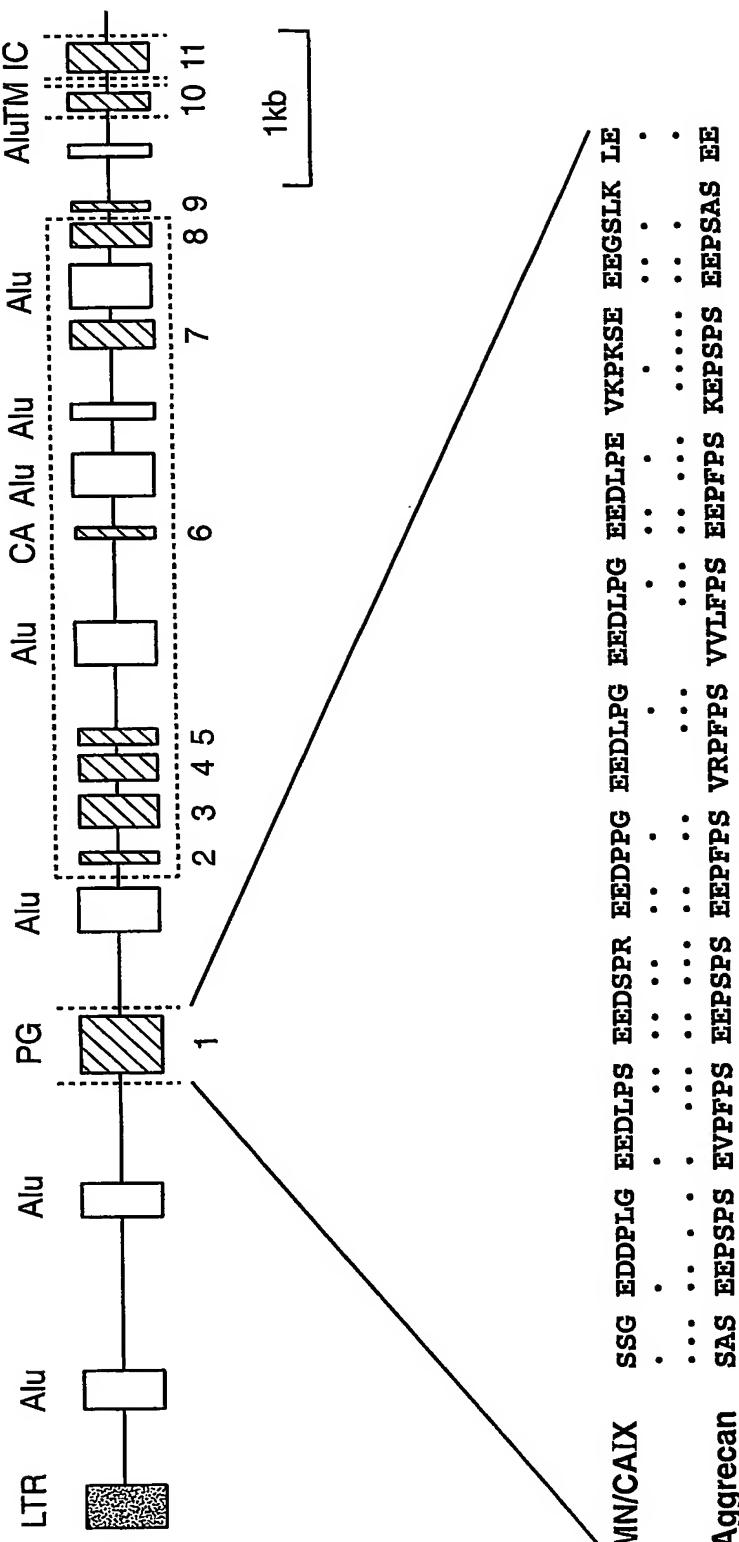


FIG. 3

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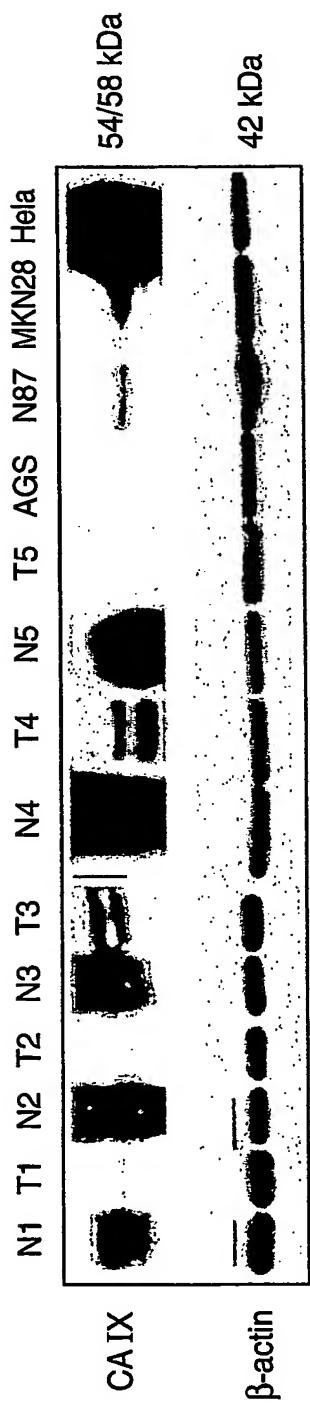


FIG. 4A

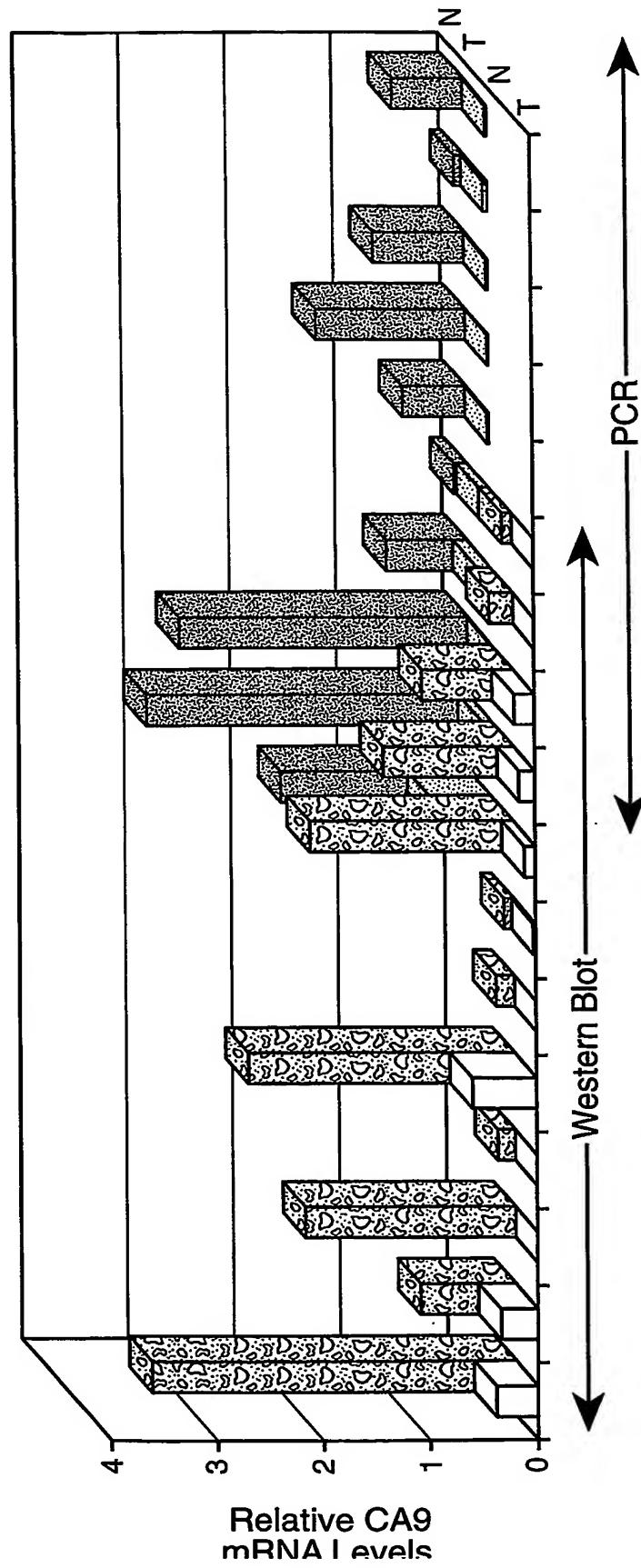
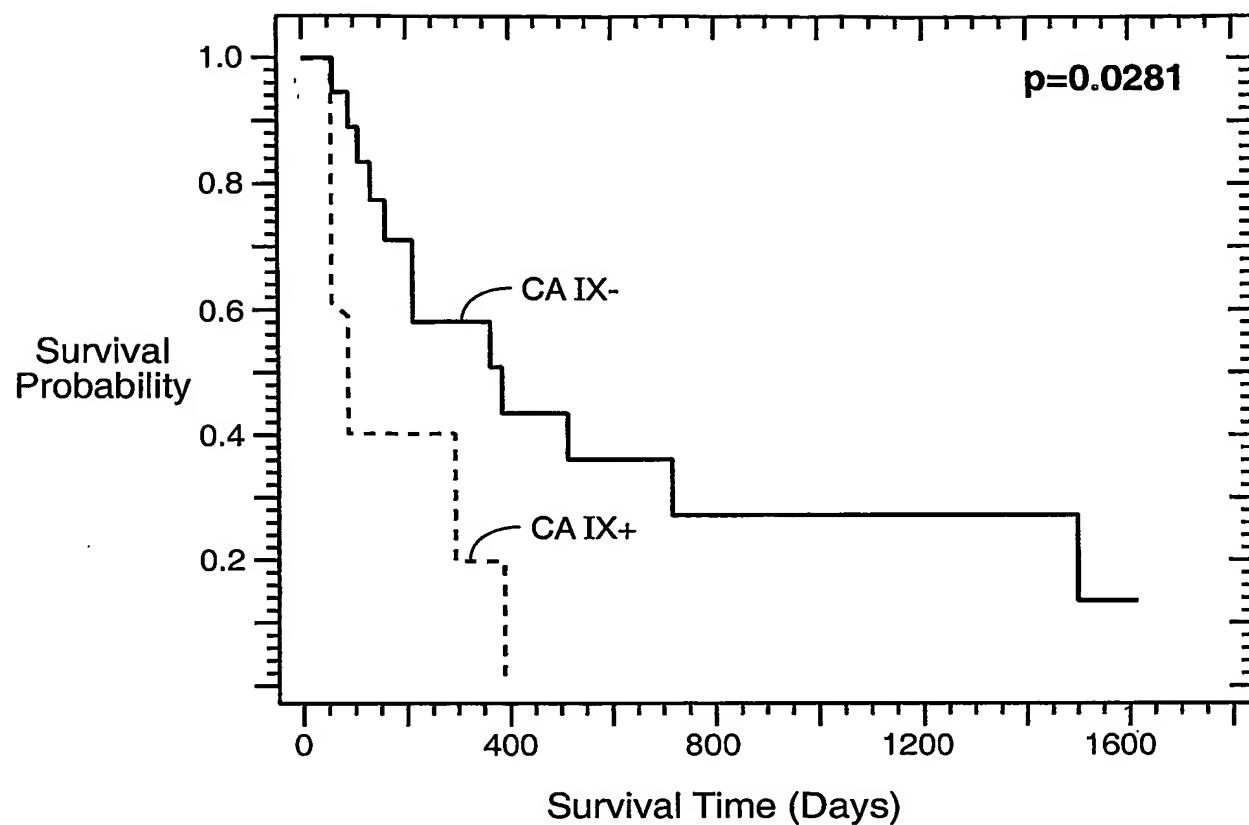
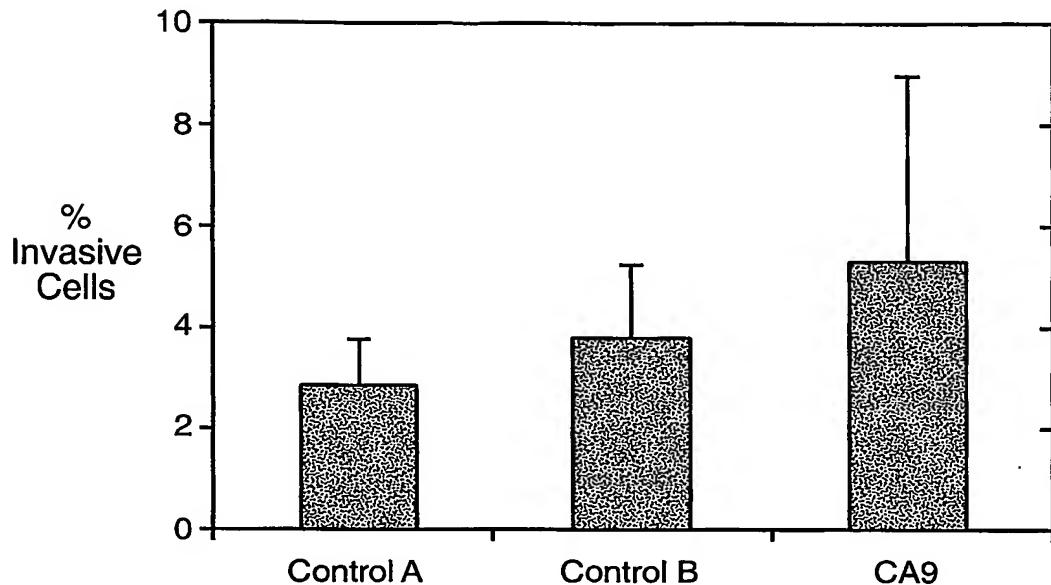
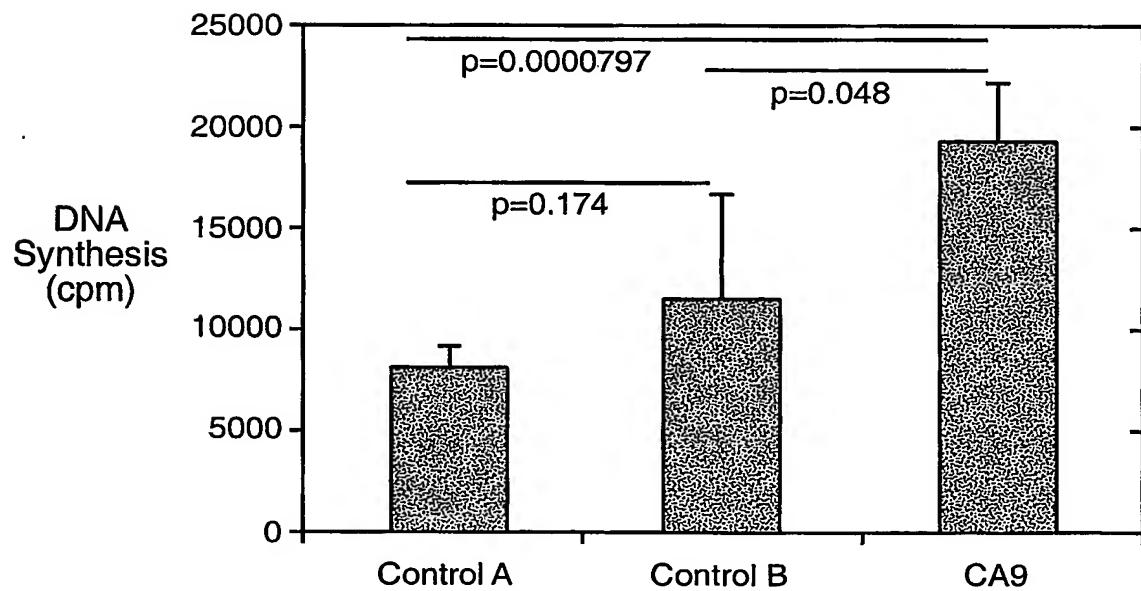


FIG. 4B

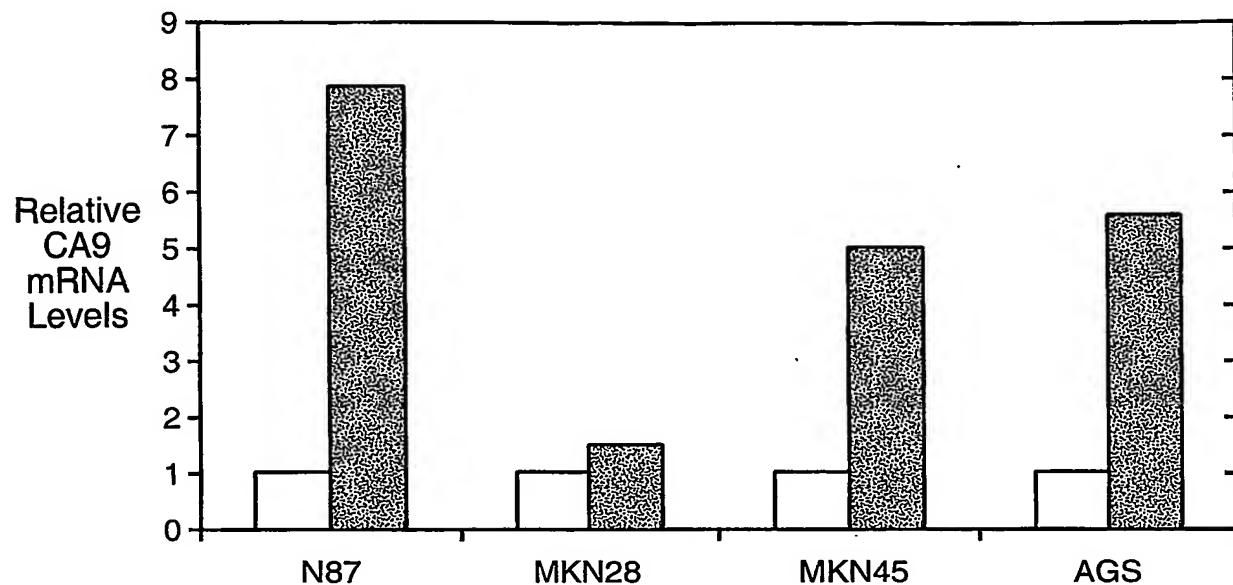
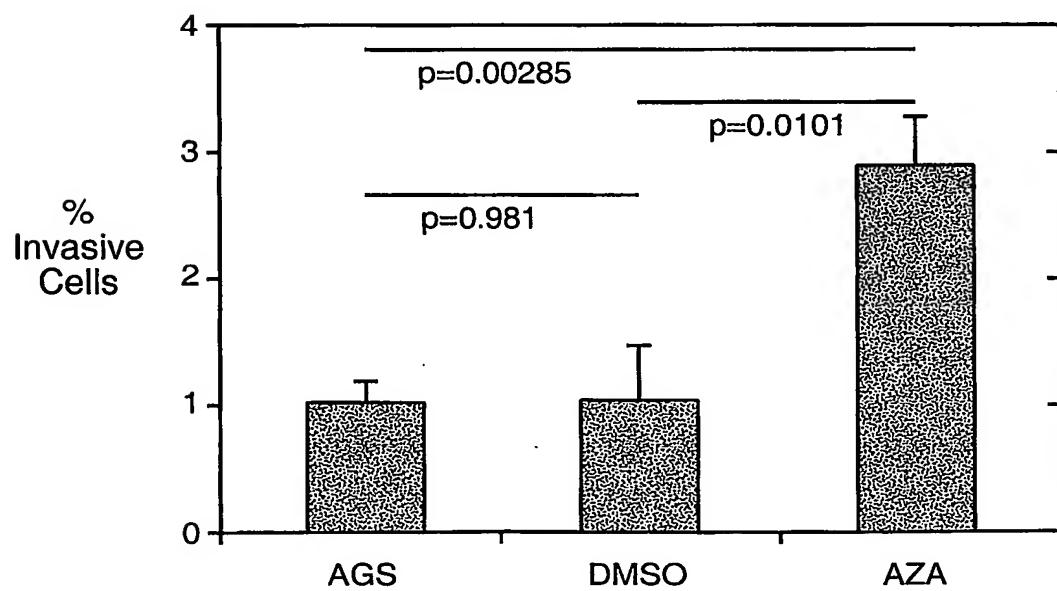
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**FIG._5**

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**FIG._6A****FIG._6B**

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**FIG._7A****FIG._7B**